



San Jacinto River Waste Pits Superfund Site

USACE Support



The Site



San Jacinto River Waste Pits

Oct 1964



**South
Impoundment
1965**



Temporary Cap Construction Completed July 2011



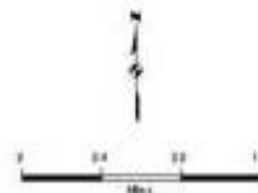


Previous USACE involvement:

- **Review of PRP modeling report.**
- **Review of PRP temporary cap design.**
- **Review of PRP draft Feasibility Study.**
- **Permit Evaluation (EPA/USACE/TCEQ).**

San Jacinto River Waste Pits

-  Preliminary Perimeter - EPA (USEPA)
-  Permits Areas of Concern -
USACE, EPA, TCEQ (USEPA)
-  1966 Original Perimeter
of Improvements - EPA (USEPA)
-  Identify & Improve
Leak of 1-10 - EPA (USEPA)



Source:
Aerial photo is from DigitalGlobe 1/2000.
Preliminary Perimeter is from EPA Region 6.
1966 Original Improvements was created by EPA
Region 6 using 1966 aerial photo from USGS.
Improvements Leaks of 1-10 was created by EPA
Region 6 using 1964 aerial photo from USGS.
Permits Area of Concern is from the USACE, EPA,
and TCEQ.

EPA makes no claims as to the
accuracy of the data or its suitability
for any particular use.

Map created February 10, 2011



EPA Region 6
GIS Support Team
Dallas, Texas
20110210T01



The Issues:

- **San Jacinto River**
- **Community concerns**

San Jacinto River

- Upper Texas coast recorded 25 hurricanes, 7 of which were major (Category 3 to 5) storms.
- October 1994 storm greater than 100-year flood (1.6 times):
 - Major soil erosion – 8 pipelines ruptured & 29 undermined; 3000 homes destroyed.
 - 10 to 12-feet of bed scour south of the I-10.



IH-10

Barges

Lower San Jacinto River

San Jacinto River at I-10 (Photo: HCFCD)

Temporary Cap – Berm Erosion

- Western Berm erosion July 2012.
- Completion of repairs August 2012.




Galveston Bay Estuary (Map 1) – Houston Ship Channel, San Jacinto River, and Upper Galveston Bay


Chambers and Harris Counties

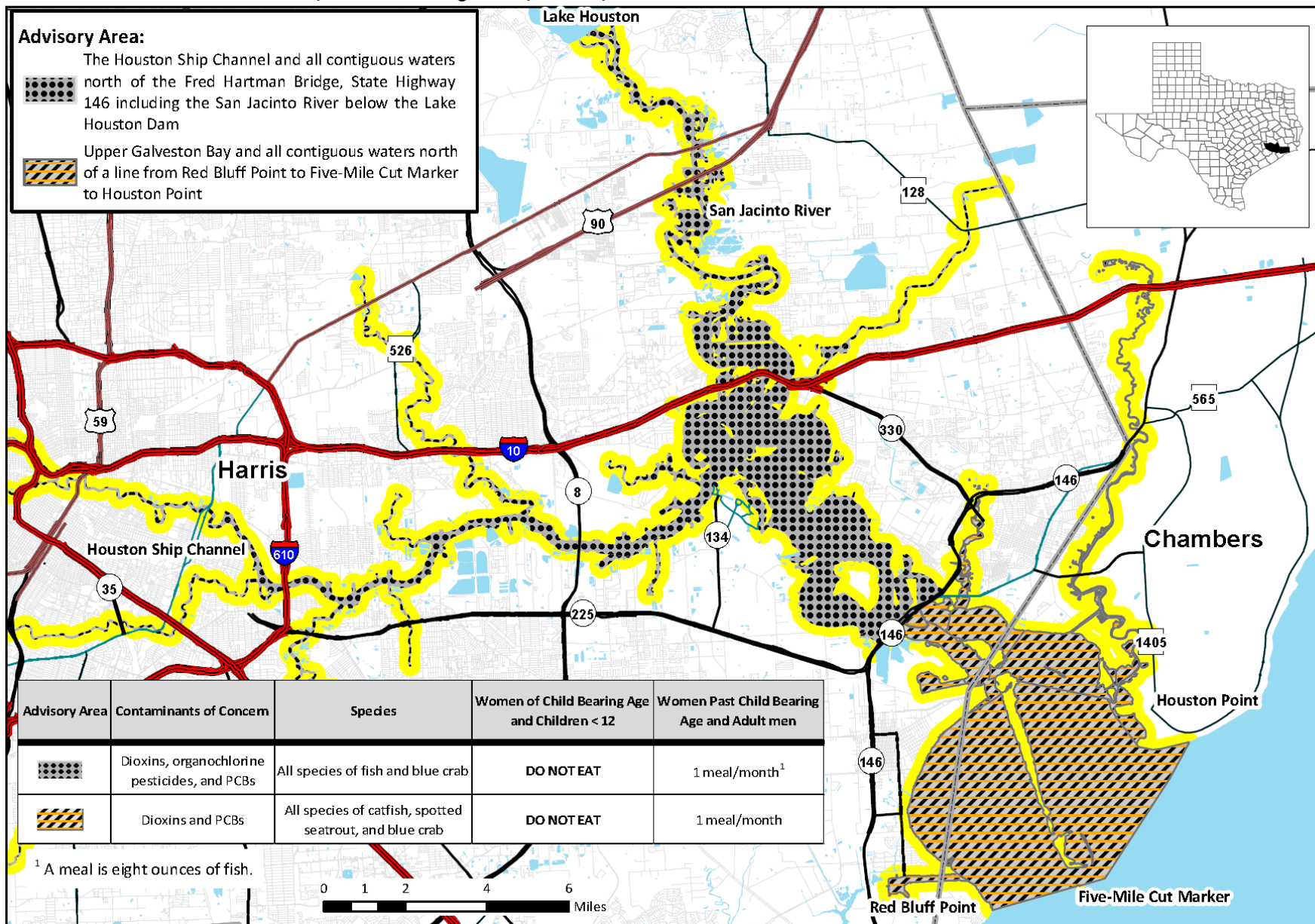
ADV-49 and ADV-50 Issued June 26, 2013 Rescinding ADV-3, ADV-20, and ADV-35





Advisory Area:

 The Houston Ship Channel and all contiguous waters north of the Fred Hartman Bridge, State Highway 146 including the San Jacinto River below the Lake Houston Dam

 Upper Galveston Bay and all contiguous waters north of a line from Red Bluff Point to Five-Mile Cut Marker to Houston Point



Advisory Area	Contaminants of Concern	Species	Women of Child Bearing Age and Children < 12	Women Past Child Bearing Age and Adult men
	Dioxins, organochlorine pesticides, and PCBs	All species of fish and blue crab	DO NOT EAT	1 meal/month ¹
	Dioxins and PCBs	All species of catfish, spotted seatrout, and blue crab	DO NOT EAT	1 meal/month

¹ A meal is eight ounces of fish.



Texas Department of State Health Services:

- Conducting investigation of cancer & birth defects.
- Door-to-door visits to discuss health concerns – interviewed over 800 persons.



Community Positions on Site Cleanup:

- **Remove waste – only way to be safe over long term.**
- **Don't remove waste – don't spread dioxin.**

USACE Support

- **Should waste stay or should it go?**
- **Construction oversight.**

***Engineer Research and Development
Center (ERDC), Vicksburg MS.***

U.S. Army Corps of Engineers

- Computer models – river flow & scour.
- Evaluation of remedial alternatives.
- Short & long term cap reliability? [storms, prop wash & barge strikes].
- Any migration through cap?
- Removal Best Management Practices.

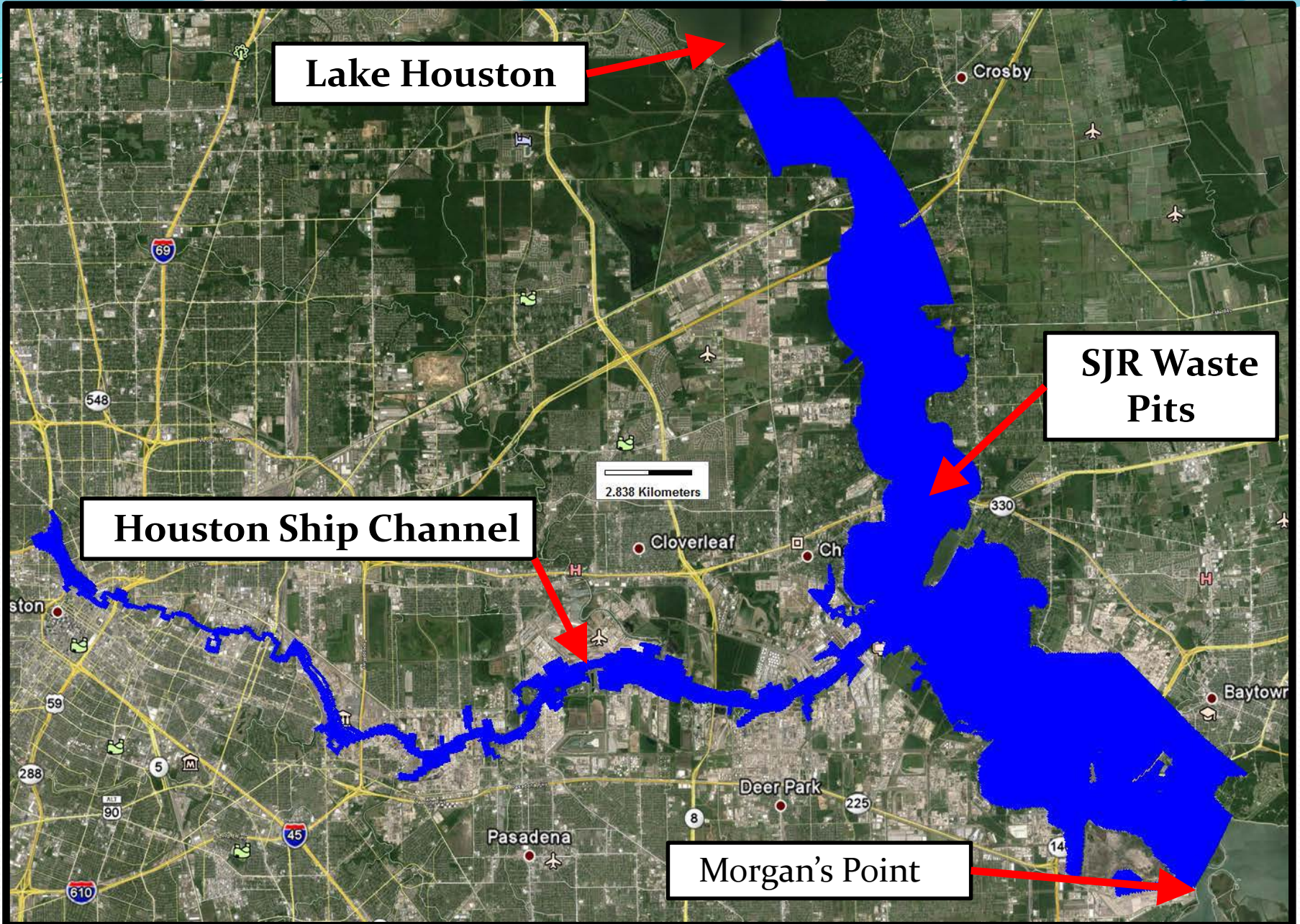
Lake Houston

**SJR Waste
Pits**

Houston Ship Channel

Morgan's Point

2.838 Kilometers





02.19.2015

